Request a Quote ?

Follow

Lenntech BV

Rotterdamseweg 402 M
2629 HH Delft
The Netherlands

tel: +31 152 610 900

fax: +31 15 261 62 89

e-mail: info@lenntech.com

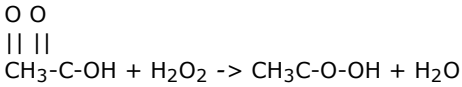
SHARE

Registered Company ISO 9001:2008 Lenntech

Disinfectants Peracetic acid

Peracetic acid

Peracetic acid ($C_2H_4O_3$) is a mixture of acetic acid (CH_3COOH) and hydrogen peroxide (H_2O_2) ir bright, colorless liquid that has a piercing odor and a low pH value (2,8). Peracetic acid is produ hydrogen peroxide and acetic acid:



acetic acid + hydrogen peroxide -> peracetic acid

Peracetic acid can also be produced by oxidation of acethaldehyde. Peracetic acid is usually proc 5-15%.
When peracetic acid dissolves in water, it disintegrates to hydrogen peroxide and acetic acid, wh oxygen and carbon dioxide. Peracetic acid degradation products are non-toxic and can easily dis Peracetic acid is a very powerful oxidant; the oxidation potential outranges that of chlorine and

What are the applications of peracetic acid?

Peracetic acid is used mainly in the food industry, where it is applied as a cleanser and as a disi acetic acid was applied for bacteria and fungi removal from fruits and vegetables. It was also us rinsing water for foodstuffs.
Nowadays peracetic acid is applied for the disinfection of medical supplies and to prevent bio filr can be applied during water purification as a disinfectant and for plumming disinfection.
Peracetic acid is suitable for cooling tower water disinfection; it affectively prevents bio film forn bacteria.

How does peracetic acid disinfection work?

Peracetic acid as a disinfectant oxidizes the outer cell membranes of microorganisms. The oxida electron transfer. When a stronger oxidant is used, the electrons are transferred to the microorg microorganism to be deactivated rapidly.

Table 1: oxidation capacity of various disinfectants

Desinfectant	EV (elektronic volts)
Ozone	2,07
Peracetic acid	1,81
Chlorine dioxide	1,57
Sodium hypochlorite	1,36

Peracetic acid affectivity

Peracetic acid can be applied for the deactivation of a large variety of pathogenic microorganism

Copyright © 1998-2015 Lenntech B.V | Email: info@lenntech.com | Tel. +31 152 610 900